



ADITYA ENVIRONMENTAL SERVICES PVT. LTD.

Testing Laboratory is certified by **ISO 9001:2015 & ISO 45001:2018**

Recognized by **MoEFCC** as “**Environmental Laboratory**” valid up to 24.04.2027

Laboratory: P-1, MIDC Mohopada, Rasayani, Dist. Raigad, 410222, E-mail: pglab@aespl.co.in

Tel: 9112844844, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787

Monitoring Period: November 2025

Purpose:

The objective of the monitoring is to understand the Ambient Air quality, Ambient Noise quality, Ground water quality at Navi Mumbai International Airport site and nearby villages.

Location of site: Navi Mumbai International Airport, At Ulwe, Panvel Taluka, Raigad District, Maharashtra.

Scope:

The scope of work includes:

Assessment of the present status of following components of environment:

- Ambient Air monitoring at 9 locations and
- Ambient Noise monitoring at 10 locations
- DG Stack Monitoring at 1 Location and DG Noise Monitoring at 1 Location
- Ground water monitoring at 2 locations





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Analysis Data:

• Ambient Air monitoring

Monitoring Dates & Duration	: 10 th November 25 to 13 th November 25; 24 hourly monitoring.
Analysis Dates	: 11 th November 25 to 25 th November 25
Locations covered (AAQ 9 Locations)	: Owale, Pargaon, Ulwe node, NMIA Project office, Kille Gavthan, L&T site Office, Diwale Koliwada, Jui & Panvel.
Parameters covered for AAQ.	: 12 Parameters as per National Ambient Air Quality Standards (NAAQS)2009.

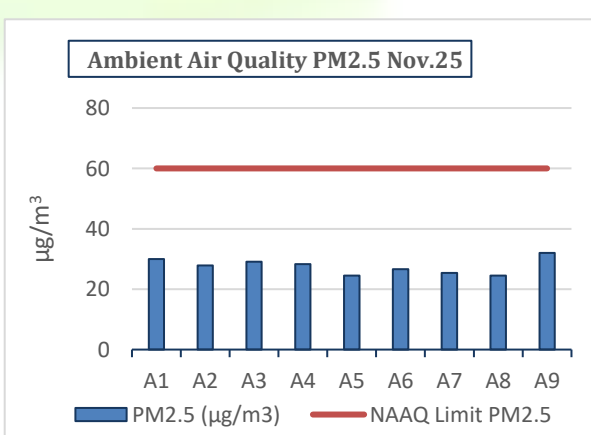
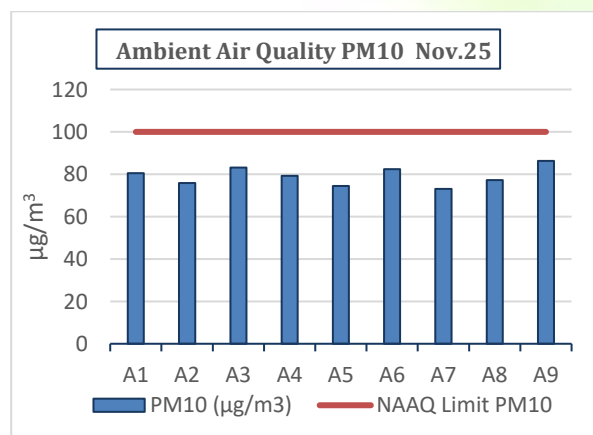
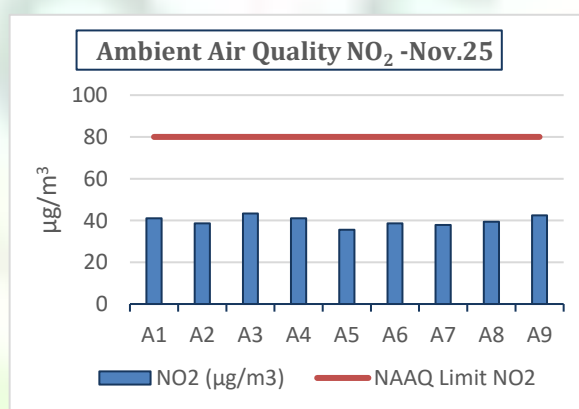
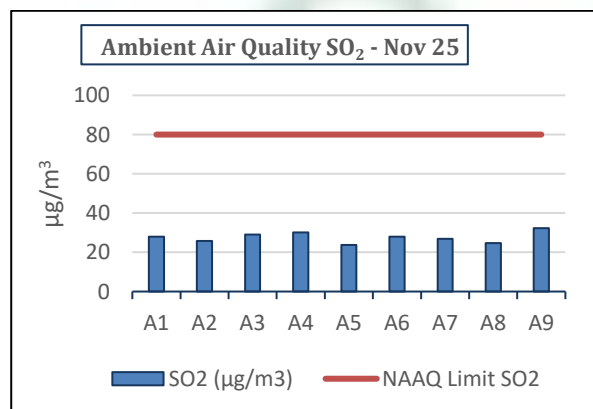
Analysis values except SO₂, NO₂, PM₁₀, PM_{2.5}, O₃, NH₃ and CO at all 9 locations are found below detection levels (BDL).

Sr. No.	Parameter	Result	Limits as per NAAQS 2009	Unit
1.	Benzo(a) pyrene as B(a)P	< 0.5	1.0 ***	ng/m ³
2.	Lead as Pb	< 0.5	1.0 *	µg/m ³
3.	Nickel as Ni	< 5.0	20 ***	ng/m ³
4.	Arsenic as As	< 5.0	6.0 ***	ng/m ³
5.	Benzene[C ₆ H ₆]	< 0.2	5.0 ***	µg/m ³

[*] 24 hourly monitoring values; [**] 1 hourly monitoring values; [***] annually monitoring values.

Conformity Statement: The monitoring undertaken indicates that Ambient Air Quality Values for monitored parameters are within the levels stipulated under National Ambient Air Quality Standards (NAAQS)2009 for all 9 locations.

Analysis Data for SO₂, NO₂, PM₁₀, PM_{2.5} and CO





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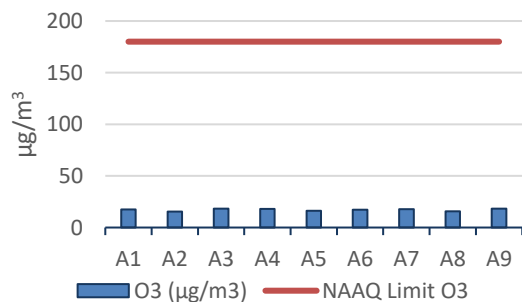
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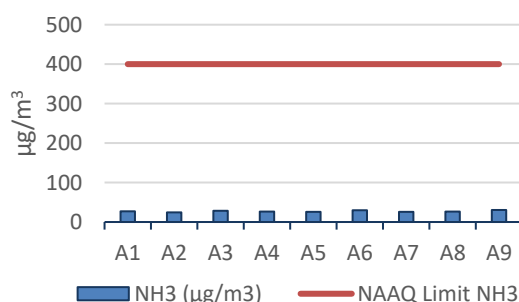
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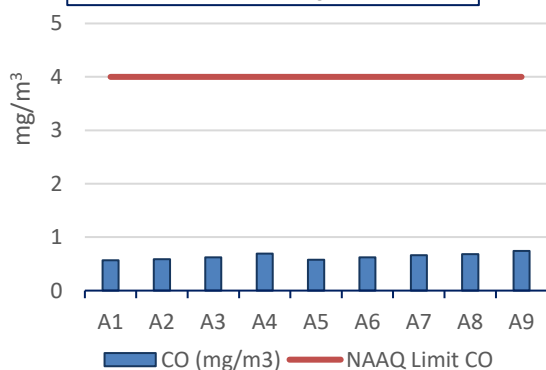
Ambient Air Quality O₃ - Nov-25



Ambient Air NH₃ Nov. 25



Ambient Air Quality CO Nov- 25

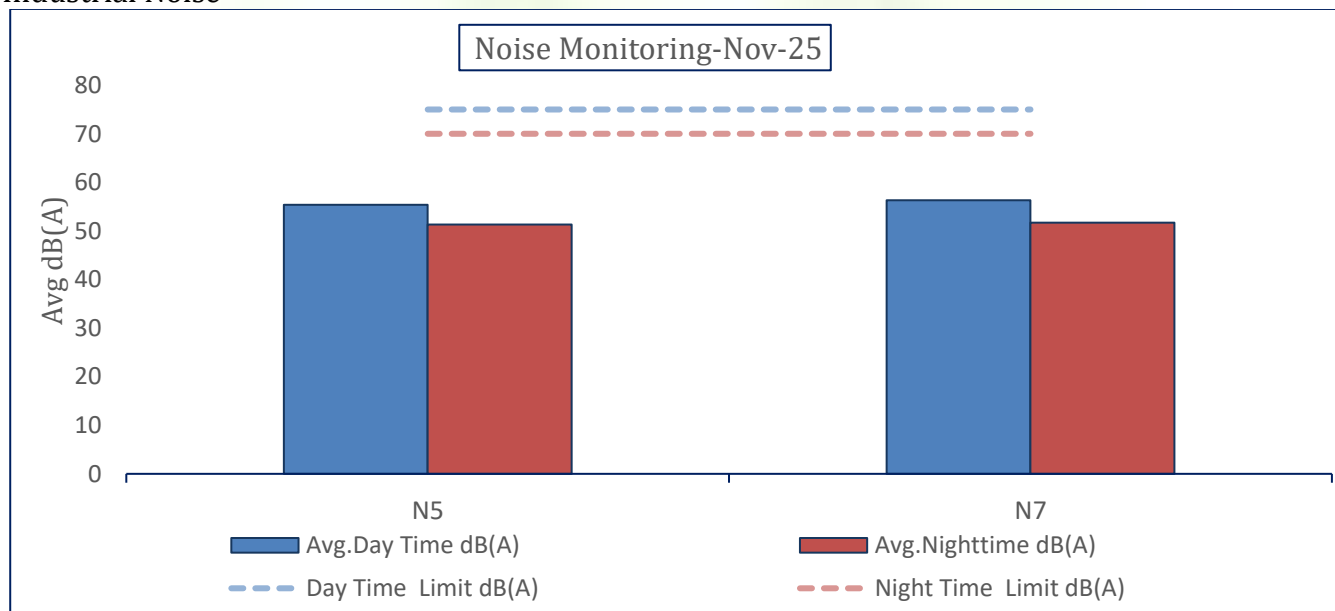


Location Code	Name of the Location
A1	Owale
A2	Pargaon
A3	Ulwe Node
A4	NMIA Project Site
A5	Kille Gavthan
A6	L&T project office
A7	Diwale Koliwada
A8	Panvel
A9	Jui

• Ambient Noise

Monitoring Dates & Duration	: 11 th November 25 to 13 th November 25; 24 hourly monitoring.
Locations covered (10 Locations)	: Owale, Pargaon, Ulwe node, NMIA Project site, Kille Gavthan, L&T Project Office, Diwale Koli Wada, Jui, Panvel & Karanjade.

Industrial Noise



Residential Noise



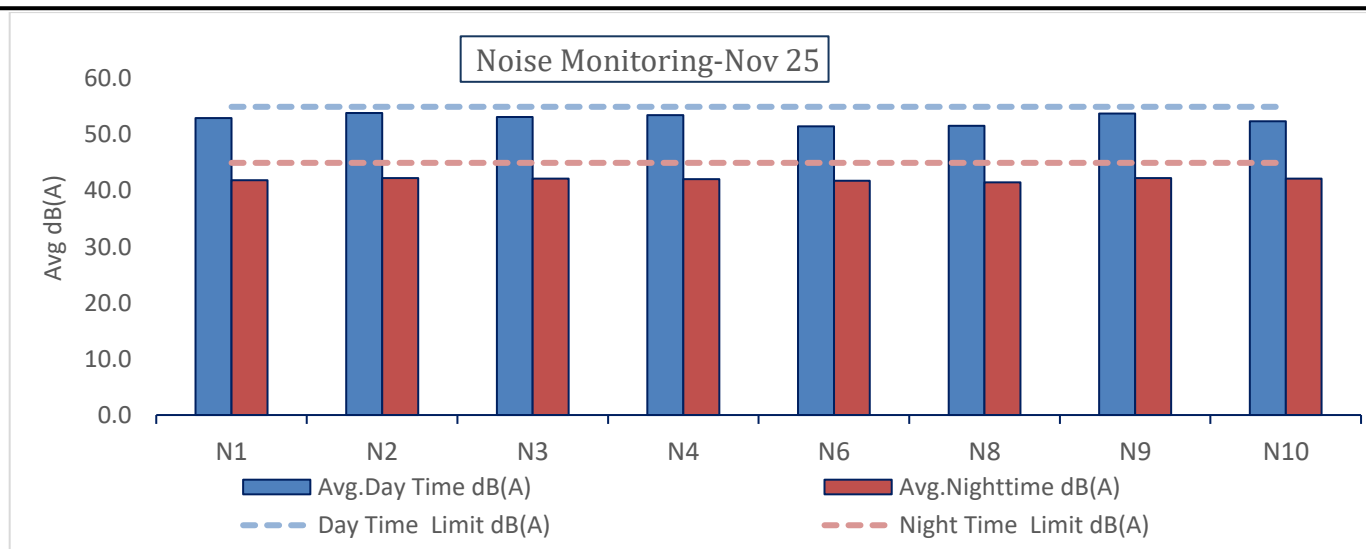
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Location Code	Name of the Location	Noise Levels dB (A)			
		L-day	L-night	Leq Day	Leq Night
Industrial Zone					
N5	NMIA Project Site	55.4	51.3	55.8	51.3
N7	L&T Site Office	56.3	51.7	56.5	51.9
Residential Zone					
N1	Owale	53.0	41.9	53.4	42.2
N2	Pargaon	54.0	42.4	54.3	43.1
N3	Ulwe Node	53.2	42.2	53.6	42.6
N4	Karanjade	53.5	42.2	54.0	42.7
N6	Kille Gavthan	51.5	41.8	53.2	41.9
N8	Diwale Koliwada	51.7	41.5	54.4	42.5
N9	Jui	53.8	42.3	54.7	42.8
N10	Panvel	52.4	42.3	54.2	41.7

Sr. No.	Sources	Noise Levels dB (A)	
		Leq Day	Leq Night
	limits as per EPA Standard		
1.	Rural/Residential Zone (R)	55.0	45.0
2.	Commercial Zone (C)	65.0	55.0
3.	Industrial Zone (I)	75.0	70.0
4.	Silence Zone (S)	50.0	40.0

Conformity Statement: Noise Levels at all the locations were found within the stipulated limits as per EPA Standard for Industrial and Residential Areas.



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• DG Stack & Noise monitoring:

Monitoring Dates & Duration	:	12 th November 25
Analysis Dates	:	13 th November 25 to 20 th November 25
Locations covered (DG 1 location)	:	DG stack monitoring at NMIA Project Site.
Parameters covered for DG	:	Particulate Matter (mg/Nm ³), Sulphur (Kg/day), CO (ppm) for DG stack monitoring.

Conformity Statement:

DG stack monitoring results are found to be well within the limits as per MPCB standards.

DG Noise Quality value at NMIA Project Site for insertion loss is within consent limit.

DG set Sound Pressure Level measured at 0.5m from the enclosure & Limit for Insertion loss of 25dBA.

• Ground water

Monitoring Dates	:	10 th November 25 Grab sampling.
Analysis Dates	:	10 th November 25 to 15 th November 25
Locations covered. (2 Locations)	:	Dug well water at Owale & Dapoli.
Parameters covered	:	59 Parameters as per IS 10500:2012 Drinking water Specification (Except Radioactive materials).

Sampling Code	Name of the Location
GW - II	Dug Well-Owale (Depth of water 4.0 Feet)
GW - III	Dug Well-Dapoli (Depth of water 4.5 Feet)

Note: Instead of 5 no. of ground water samples only 2 no. of ground water samples were available.

Conformity Statement: Dug well water samples are **Pass** as per IS 10500:2012 w. r. t. Chemical analysis & **Fail** for Microbiological analysis.

Himani P. Joshi.
(Report Reviewed By)



Reshma S. Patil.
(Authorized Signatory)

-End of Report-